

METHOD AND SYSTEM FOR A SECURE DIGITAL DECODER

ABSTRACT

A method and system for securely decrypting and decoding a digital signal. One embodiment of the present invention first receives an encrypted signal at a 5 first logical circuit. Next, this embodiment determines a broadcast encryption key for the encrypted signal at a first location separate from the first logical circuit. For example, the separate location where the broadcast key was determined may be across a communication link from the first circuit where the signal is being received. Then, the broadcast encryption key is encrypted and transferred over 10 the communication link. Next, at the first logical circuit, the encrypted broadcast encryption key is decrypted. Therefore, the broadcast encryption key is determined. Then, at said first logical circuit, the encrypted signal is decrypted using the broadcast encryption key. Consequently, the encrypted signal is decrypted without exposing the broadcast encryption key on the communication 15 link in an un-encrypted form. Another embodiment provides a method which first generates a local encryption key. Then, the local encryption key is transferred across a communication link to a first logical circuit and to a second logical circuit. With the local encryption key, a digital signal at the first logical circuit is encrypted. This encrypted signal is transferred to the second logical circuit. Thus, the signal 20 is not exposed in an un-encrypted form. Next, the second logical circuit uses the local encryption key to decrypt the signal.